

# ABSTRACT

An open loop controller for use with a sampled grating distributed Bragg reflector (SGDBR) laser is presented. The controller provides separate inputs to the laser including a front mirror current controlling a front mirror and a back mirror current controlling a back mirror to control, as well as a phase current and a gain current. The open loop controller in accordance with the present invention further includes a lookup table generated to reflect the unique specifications of each SGDBR laser is controlled.